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### RAW SEQUENCE LISTING PATENT APPLICATION US/09/189,028

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This Raw Listing contains the General Information Section and up to the first 5 pages.

#4

### SEQUENCE LISTING ENTERED

		DEQUENCE DISTING
2		
3	(1) G	eneral Information:
4		
5	(i)	APPLICANT: Rasmussen, Grethe
6		Mikkelsen, Jan Moller
7		Schulein, Martin
8	•	Patkar, Shankant A.
9		Hagen, Fred
10		•
11	(ii)	TITLE OF INVENTION: A Cellulase Preparation Comprising an
12	• •	Endoglucanase Enzyme
13		-
14	(iii)	NUMBER OF SEQUENCES: 33
15	, ,	
16	(iv)	CORRESPONDENCE ADDRESS:
17	, ,	(A) ADDRESSEE: Novo Nordisk of North America, Inc.
18		(B) STREET: 405 Lexington Avenue, 64th Floor
19		(C) CITY: New York
20		(D) STATE: New York
21		(E) COUNTRY: United States of America
22		(F) ZIP: 10174-6401
23		
24	(V)	COMPUTER READABLE FORM:
25		(A) MEDIUM TYPE: Floppy disk
26		(B) COMPUTER: IBM PC compatible
27		(C) OPERATING SYSTEM: PC-DOS/MS-DOS
28		(D) SOFTWARE: PatentIn Release #1.0, Version #1.30
29		
30	(Vi)	CURRENT APPLICATION DATA:
31		(A) APPLICATION NUMBER: 09/189,028
32		(B) FILING DATE:
33		(C) CLASSIFICATION:
34		
35	(vii)	PRIOR APPLICATION DATA:
36		(A) APPLICATION NUMBER: US 08/389,423
37		(B) FILING DATE: 14-FEB-1995
38		
39	(viii)	ATTORNEY/AGENT INFORMATION:
40		(A) NAME: Lambiris, Elias J.
41		(B) REGISTRATION NUMBER: 33,728
42		(C) REFERENCE/DOCKET NUMBER: 3469.214-US
43		
44	(ix)	TELECOMMUNICATION INFORMATION:
45		(A) TELEPHONE: 212-867-0123
46		(B) TELEFAX: 212-878-9655

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48		T.1.			<b>505</b>	a=0	<b>T</b> D .	10 . 1	_								
49																	
50		, .	\ CE	OLIENIA.	an at	TADA(	ameio.	TOMT	ne.								
51 52	(A) LENGTH: 1060 base pairs																
53	(B) TYPE: nucleic acid																
			•														
54				C) S' D) T(					are.								
55 56			( )	<i>U)</i> 10	)POP(	JG I :	T T 111	ear									
50 57	(ii) MOLECULE TYPE: cDNA																
5 <i>1</i>																	
59	(iii) HYPOTHETICAL: NO																
60																	
61	(vi) ORIGINAL SOURCE:																
62		( • +	•					icola	a in	രില	ne						
63				-					<b>4 4.1.</b>	JOTC.							
64	• •																
65	(ix) FEATURE:																
66	· · ·																
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73	(ix) FEATURE:																
74	·																
75	(A) NAME/KEY: CDS (B) LOCATION: 10924																
76	(B) LOCATION: 10924																
77	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:																
78																	
79	GGA.	TCCA	AG A	rg co	GT TO	CC TO	cc c	cc c	rc c'	rc co	CG TO	CC G	CC G'	rr g	rg go	CC	48
80			Me	et A	rg Se	er Se	er P	ro L	eu L	eu Pi	ro Se	er A	la V	al Va	al Al	La	
81			-:	21 -2	20				- :	15				- :	10		
82																	
83	GCC	CTG	CCG	GTG	TTG	GCC	CTT	GCC	GCT	GAT	GGC	AGG	TCC	ACC	CGC	TAC	96
84	Ala	Leu	Pro	Val	Leu	Ala	Leu	Ala	Ala	Asp	Gly	Arg		Thr	Arg	Tyr	
85				~ 5					1				5				
86																	
87				TGC													144
88	Trp	Asp	Cys	Cys	Lys	Pro	Ser	Cys	Gly	Trp	Ala	Lys	Lys	Ala	Pro	Val	
89		10					15					20					
90									_								
91				GTC													192
92		Gln	Pro	Val	Phe		Cys	Asn	Ala	Asn		Gln	Arg	Ile	Thr		
93	25					30					35					40	
94			<b></b> :							<b></b> :				m	me.~	mca	0.40
95				AAG													240
96	Phe	Asp	Ala	Lys	•	GTÀ	Cys	GLu	Pro	_	GTA	Va⊥	Ala	туr		cys	
97					45					50					55		
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98 99	000	<b>a.</b> c	a. c	ACC	aa.	maa	aam	ama	7 * C	a 2 a	a.c	mm~	aaa	OM C	aam	mmm m	288

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100 101	Ala	Asp	Gln	Thr 60	Pro	Trp	Ala	Val	Asn 65	Asp	Asp	Phe	Ala	Leu 70	Gly	Phe	
102 103 104											GCG Ala						336
105 106			75					80					85				
107 108		Tyr					Thr				GTT Val	Ala					384
109 110 111	аша	90	ana	шаа	A C C	ACC	95 AGIII	aaa	COM	CATT	СТТ	100	ACC	አአጣ	CAC	ጥጥሮ	432
112	Val					Ser					Leu 115						432
113 114 115	105	ama.	220	A THICK	ccc	110	CCC	aaa	CITIC!	aaa	ATC	ጥጥሮ	GAC	GGA	тас		480
116 117 118											Ile						400
119											TAC						528
120 121 122	Pro	GIN	Pne	140	GTÀ	Leu	Pro	GTÀ	145	Arg	Tyr	сту	ста	11e 150	Ser	ser	
123											CTC						576
124 125 126	Arg	ASN	155	cys	Asp	Arg	Pne	160	Asp	Ата	Leu	гàг	165	СТУ	Cys	Tyr	
127 128											AAT Asn						624
129 130	11.5	170	1110	пор	110	1110	175	11011				180	201				
131											GCT						672
132 133	Arg 185	Gln	Val	GIn	Cys	Pro 190	Ala	GIu	Leu	Va⊥	Ala 195	Arg	Thr	GTÀ	Cys	Arg 200	
134			a.a	a. a	222			ОСШ	999	ата	ana	a ma	000	шаа	3.00	200	720
135 136											CAG Gln						720
137	_		-	-	205					210					215		
138 139	ACC	AGC	тст	CCG	GTC	AAC	CAG	ССТ	ACC	AGC	ACC	AGC	ACC	ACG	TCC	ACC	768
140											Thr						
141				220					225					230			
142 .143	TCC	ACC	ACC	TCG	AGC	CCG	CCA	GTC	CAG	ССТ	ACG	АСТ	ccc	AGC	GGC	TGC	816
144											Thr						
145 146			235					240					245				
147	ACT	GCT	GAG	AGG	TGG	GCT	CAG	TGC	GGC	GGC	AAT	GGC	TGG	AGC	GGC	TGC	864
148											Asn						
149		250					255					260					
150 151	ACC	ACC	TGC	GTC	GCT	GGC	AGC	ACT	TGC	ACG	AAG	АТТ	ААТ	GAC	TGG	TAC	912
152											Lys						<b>-</b>

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153	265					270					275			11	VPUI	280	isuos.raw	
154 155 156 157				CTG Leu		ACGC.	AGG (	GCAG(	CTTG.	AG G	GCCT'	ТАСТ	G GT	GGCC	GCAA		964	
158 159	CGA	AATG	ACA	CTCC	CAAT	CA C	TGTA'	TTAG'	т тс	TTGT.	ACAT	AAT	rtcg	TCA '	TCCC'	TCCAGG	1024	
160 161	GATTGTCACA TAAATGCAAT GAGGAACAAT GAGTAC													1060				
162 163																		
164 165	(2)	INF	ORMA	TION	FOR	SEQ	ID 1	NO:2	:									
166			(i)	SEQU														
167 168					) LE:					acid	S							
169	(D) TOPOLOGY: linear																	
170 171	(ii) MOLECULE TYPE: protein																	
172 173	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:																	
174		•	•	_						_								
175 176		Arg		Ser	Pro	Leu	Leu -15	Pro	Ser	Ala	Val	Val -10	Ala	Ala	Leu	Pro		
177	**-1	T	.1.	F			3	a1	3	G	mb w	3 24 00	П		A am	<b>0</b>		
178 179	-5	Leu	Ата	Leu	Ala	AIA 1	Asp	СТУ	Arg	Ser 5	THE	Arg	Tyr	тгр	10	Cys		
180 181	Cuc	Lvc	Dro	Ser	Cve	Cl v	Trn	λΙα	T tre	Tue	λla	Dro	Val	λen	Gln	Pro		
182	Суб	гуз	PIO	15	Cys	GIY	пр	АТа	20	цуз	ATG	FIO	Val	25	GIII	110		
183 184	۷al	Phe	Ser	Cys	Asn	Δla	Asn	Phe	Gln	Ara	Tle	Thr	Asp	Phe	Asp	Ala		
185	*41		30	0,2			11011	35	02	9			40					
186 187	Lvs	Ser	Glv	Cys	Glu	Pro	Glv	Glv	Val	Ala	Tyr	Ser	Cys	Ala	Asp	Gln		
188	3	45	_	-			50	-			-	55	•		-			
189 190	Thr	Pro	Trp	Ala	Val	Asn	Asp	Asp	Phe	Ala	Leu	Gly	Phe	Ala	Ala	Thr		
191 192	60					65					70					75		
193	Ser	Ile	Ala	Gly	Ser	Asn	Glu	Ala	Gly	Trp	Cys	Cys	Ala	Cys		Glu		
194 195					80					85					90			
196	Leu	Thr	Phe	Thr	Ser	Gly	Pro	Val		_	Lys	Lys	Met		Val	Gln		
197 19 <b>8</b>				95					100					105				
199	Ser	Thr		Thr	Gly	Gly	Asp		Gly	Ser	Asn	His		Asp	Leu	Asn		
200 201			110					115					120					
202	Ile		Gly	Gly	Gly	Val	-	Ile	Phe	Asp	Gly		Thr	Pro	Gln	Phe		
203 204		125					130					135						
205	Gly	Gly	Leu	Pro	Gly	Gln	Arg	Tyr	Gly	Gly	Ile	Ser	Ser	Arg	Asn	Glu		

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207	_	_			_		. 7	_	_			_				-1	
208	Cys	Asp	Arg	Phe		Asp	Ala	Leu	гåг		GTÀ	Cys	Tyr	Trp		Pne	
209					160					165					170		
210			_			_	_	_	_					_			
211	Asp	Trp	Phe	-	Asn	Ala	Asp	Asn		Ser	Phe	Ser	Phe	_	GIn	Val	
212		•		175					180					185			
213								_									
214	Gln	Cys	Pro	Ala	Glu	Leu	Val		Arg	Thr	Gly	Cys	Arg	Arg	Asn	Asp	
215			190					195					200				
216																	
217	Asp	Gly	Asn	Phe	Pro	Ala	Val	Gln	Ile	Pro	Ser	Ser	Ser	Thr	Ser	Ser	
218		205					210					215					
219																	
220	Pro	Val	Asn	Gln	Pro	Thr	Ser	Thr	Ser	Thr	Thr	Ser	Thr	Ser	Thr	Thr	
221	220					225					230					235	
222																	
223	Ser	Ser	Pro	Pro	Val	Gln	Pro	Thr	Thr	Pro	Ser	Gly	Cys	Thr	Ala	Glu	
224					240					245					250		
225																	
226	Arg	Trp	Ala	Gln	Cys	Gly	Gly	Asn	Gly	Trp	Ser	Gly	Cys	Thr	Thr	Cys	
227				255					260					265			
228																	
229	Val	Ala	Gly	Ser	Thr	Cys	Thr	Lys	Ile	Asn	Asp	Trp	Tyr	His	Gln	Cys	
230			270					275					280				
231																	
232	Leu																
233																	
234																	
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236	(2)	INF	ORMA'	rion	FOR	SEQ	ID I	NO:3	:								
237																	
238		(i	) SE(	QUEN	CE CI	HARAG	CTER:	ISTI	CS:								
239			(1	A) LI	ENGTI	H: 14	473 l	base	pair	rs							
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242			(1	D) T(	OPOLO	OGY:	line	ear									
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244		(ii)	) MOI	LECUI	E TY	YPE:	CDN	A									
245																	
246	(	(iii	) HY	POTH!	TIC!	AL: 1	NO.										
247																	
248		(iv	) ANT	ri-si	ENSE	: NO											
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250		(vi	OR	IGIN/	AL SO	OURCE	<b>:</b> :										
251			( ]	A) OI	RGAN	ISM:	Fusa	ariun	n oxy	yspoi	cum						
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